

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/22613

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E04H12/22

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E04H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 93 03241 A (HUME KENNETH MICHAEL) 18 February 1993 (1993-02-18)	1-6, 8, 13, 17, 19, 21, 36, 37, 42, 43, 45-47, 54
A	the whole document	18, 23, 24, 28, 38, 40, 41, 48, 53

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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Date of the actual completion of the international search

30 October 2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 167 673 B1 (FOURNIER PAUL W) 2 January 2001 (2001-01-02)	1-9, 13, 14, 17, 19, 21, 36, 37, 42, 43, 45-47, 54
A	column 3, line 11 -column 9, line 25; figures 1-7, 11-14	15, 16, 18, 23, 31, 32, 38, 40, 41, 50, 53
X	EP 0 303 365 A (SCOTT BADER CO) 15 February 1989 (1989-02-15)	1, 2, 13-17, 19, 24-26, 42-46, 50, 54
A	the whole document	10, 11, 18, 31, 36-38, 40, 41, 48, 49, 53, 55
X	US 4 779 389 A (LANDERS PHILLIP G) 25 October 1988 (1988-10-25)	1, 2, 4, 8, 10-13, 17, 19, 24-31, 42-46, 54
A	column 5, line 17 -column 11, line 45; figures 1-16	15, 16, 18, 21, 23, 32, 36-38, 40, 41, 47-49, 53, 55
A	US 3 034 209 A (GIUSEPPE BIANCA EDOARDO ET AL) 15 May 1962 (1962-05-15) column 2, line 57 -column 5, line 15; figures 1-34	1-55
A	US 5 600 537 A (GORDIN MYRON K ET AL) 4 February 1997 (1997-02-04) cited in the application column 16, line 19 -column 16, line 63 column 17, line 46 -column 18, line 64 column 27, line 32 -column 29, line 2; figures 3, 6-8, 31-33	1-9, 42, 46, 54

## INTERNATIONAL SEARCH REPORT

Information on patent family members

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